



Ornamental Turning

An introduction

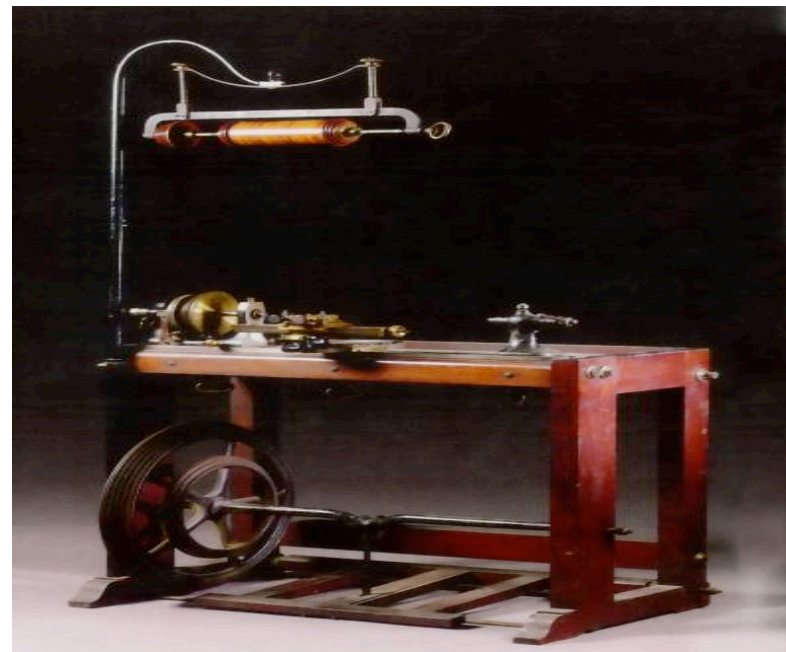
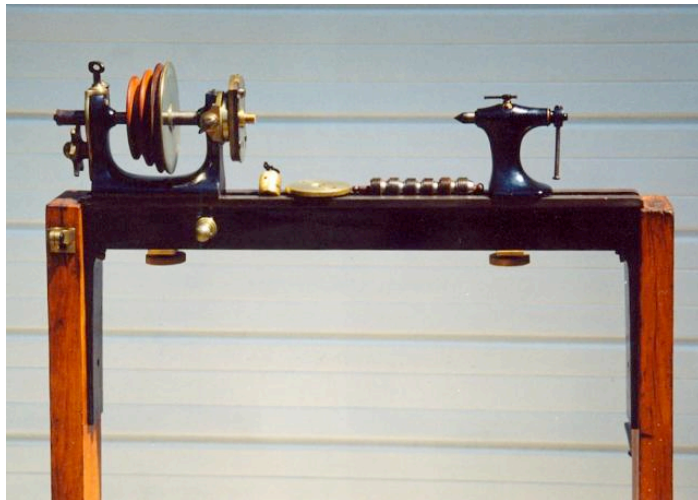


Pete Midgley
19 March, 2009

Ornamental Turnings



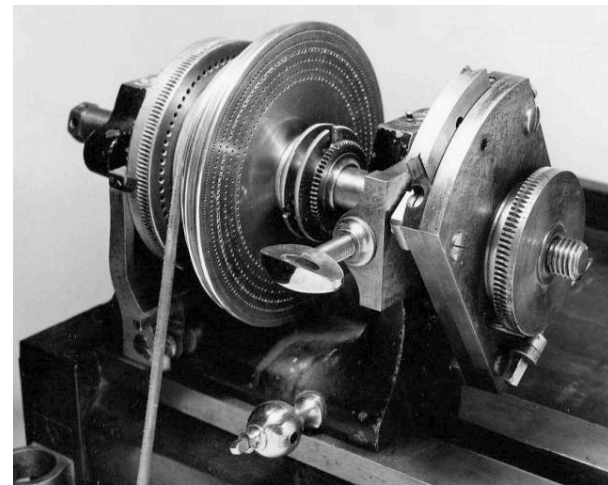
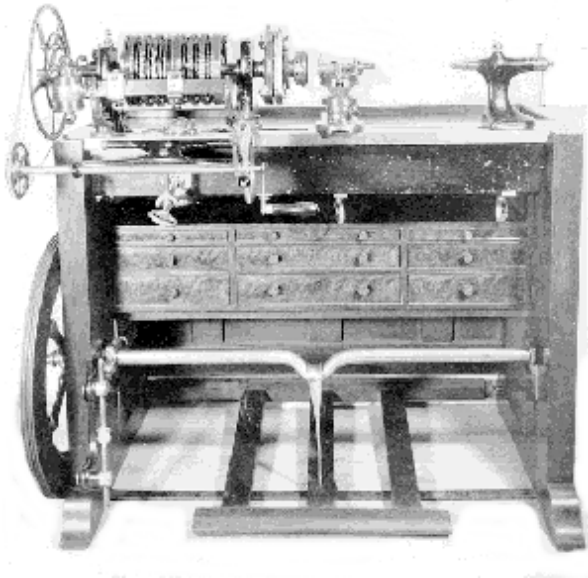
- Ornamental turning started in the 16th century or so
- Because the machines were so complex and consequently very expensive, the average peasant was excluded, and it became the hobby of the richer classes.
- Holtzapffel of London introduced commercial machinery around 1800



Ornamental Turnings



- These became progressively more complex as time went by

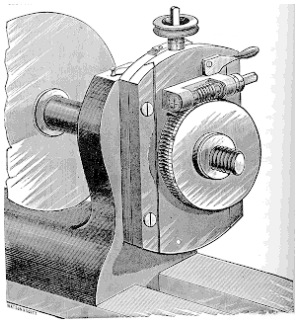


Ornamental Turnings

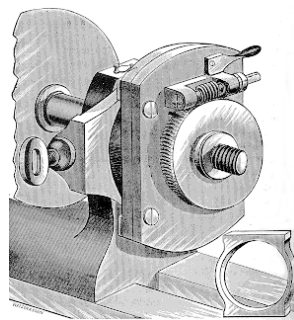
The accessories also multiplied by natural selection until you needed a servant to keep them clean. A Holtzapffel in good condition today would cost about \$40,000.00



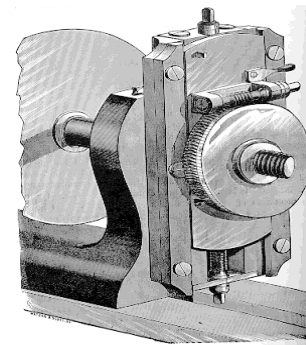
- Some examples of chucks invented,



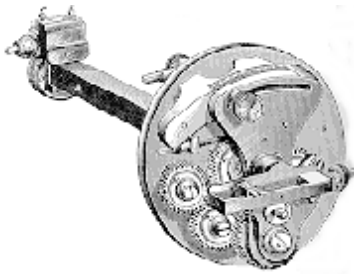
Eccentric



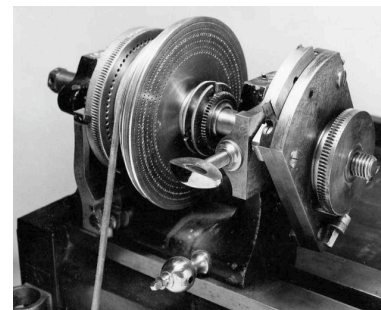
Elliptical



Rectilinear



Epicycloidal



Oval
Chuck

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- A modern chuck and machine



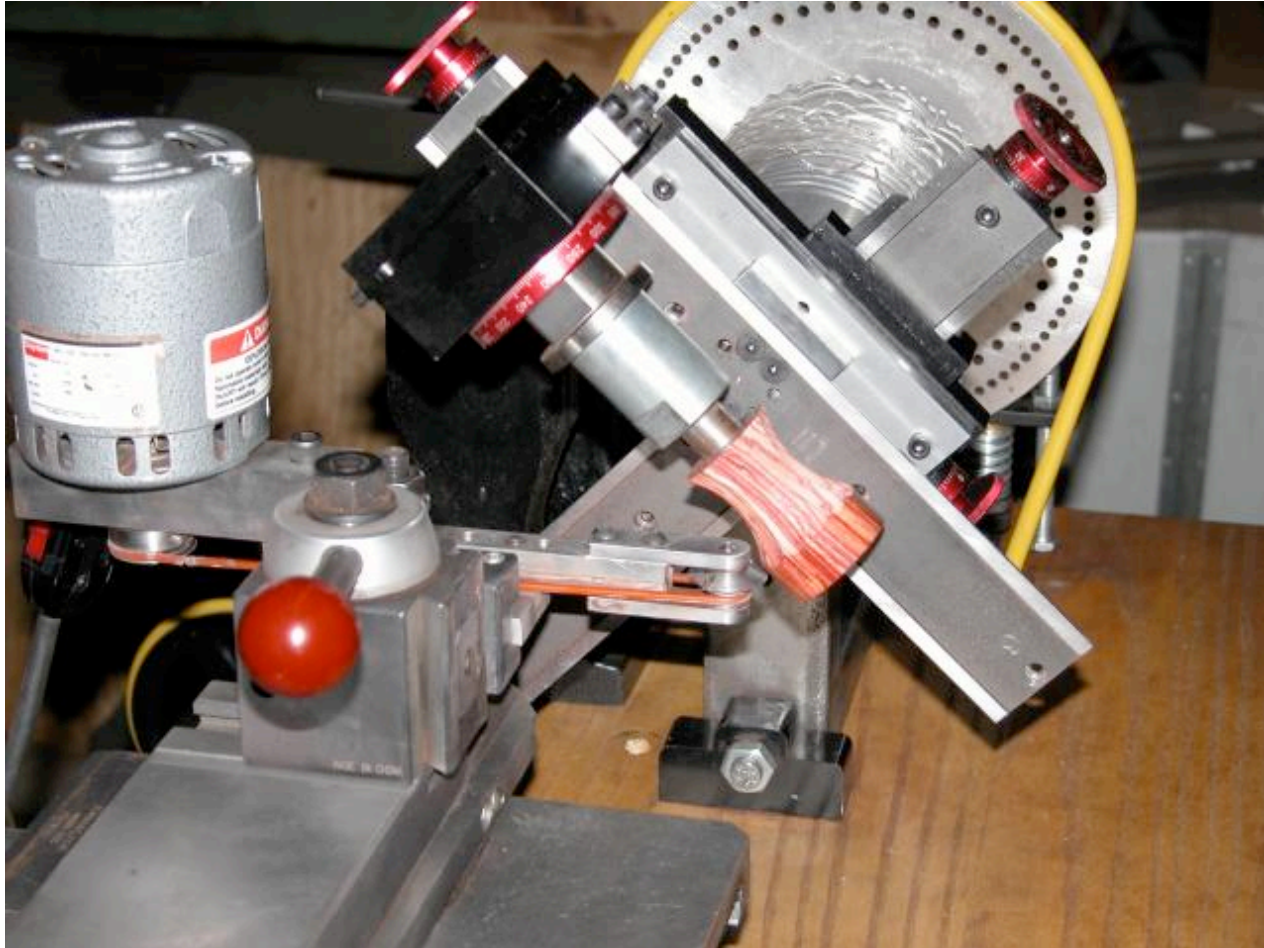
A Lindow White without the overhead drive, sells for around \$3,000.00 US



Dome chuck on a Lindow White engine

Ornamental Turnings

Dome Chuck on an Eccentric Chuck



Ornamental Turnings



- To bring us back to earth, Jon Magill of Spokane, WA, dreamed up the “MDF Rose Engine”, which you see before you:



Plans are available from <http://www.ornamentaltourners.org/>

Ornamental Turnings



- MDF Rose Engine



Drive End



Bottom of pivot box



Pivots



Rubbers



Cutter



Fading Stop



Overhead drive

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- Rosettes



J6-36



Oval



F4



F8



Plain 5



Plain 6



Sin 24



Sin 48

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- Phasing



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F4 and F8 samples

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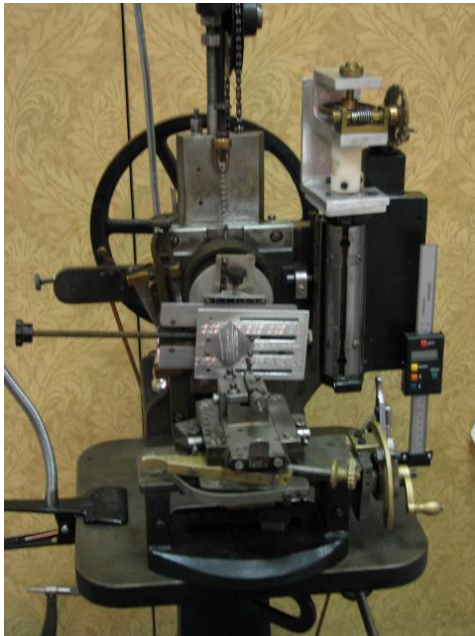


- Oval rosette and Sin48 rosette pattern cut using the double rubbers to create a striking pattern. This is in ~2" diameter hard maple and shows the amplitude of the two rosettes at that diameter.

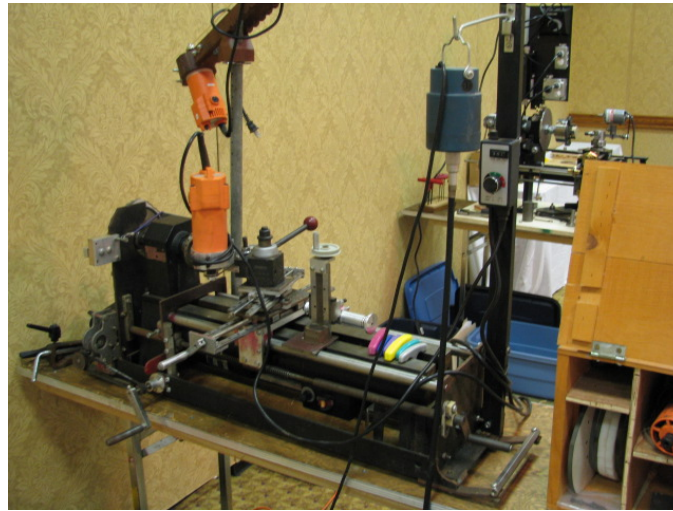


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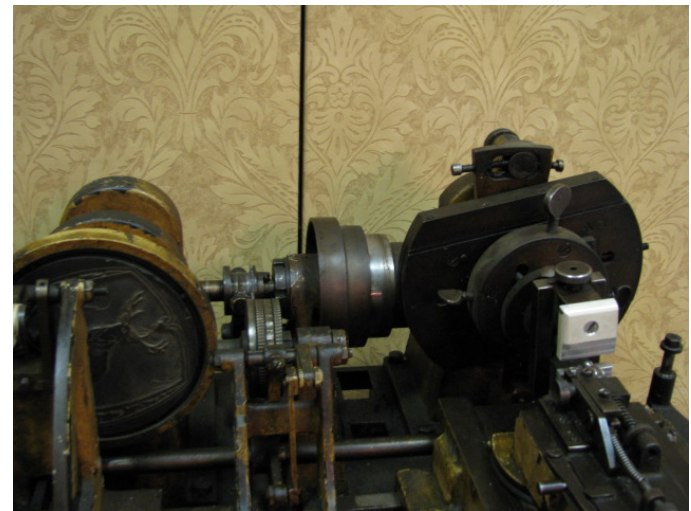
- Some machines



Engraver



Home made



Copier

Ornamental Turnings

- Some examples



Ornamental Turnings



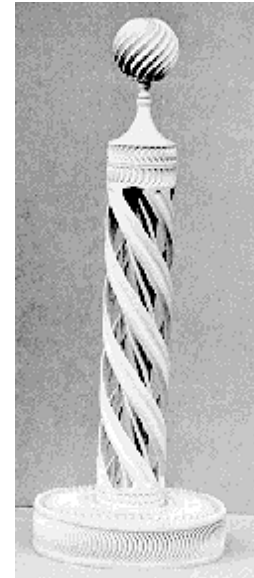
- More examples



Ivory



Rosewood



Ivory

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Holtzapffel Ivory Chalice



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The End

If anybody needs help, call me at
(289) 244 7600

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